



COMMONWEALTH of VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010447
CERTIFICATION DATE: November 15, 2013
DATE RECERTIFICATION DUE: May 14, 2014

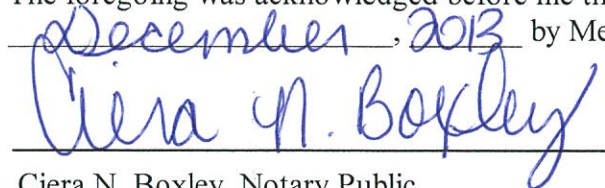
The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science. This certification is valid from the above listed certification date until the above listed date for recertification.



Melissa Kennedy
Program Manager, Calibration & Training

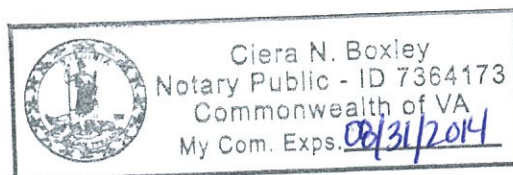
CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 2nd day of
December, 2013 by Melissa Kennedy



Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014
TLW



DBH
ML

**Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 11/18/2013**

Instrument Serial Number: 010447 **As of 18-Nov-13**

Maintenance Date	Certification Date	Technician Initials	Remarks
15-Nov-13	15-Nov-13	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
28-May-13	28-May-13	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD. REPLACED PRINTER RIBBON.
14-Dec-12	14-Dec-12	DBH (21250)	CERTIFIED.
02-Jul-12	02-Jul-12	TLN (25387)	CERTIFIED. REPLACED DRY GAS STANDARD.
19-Jan-12	19-Jan-12	DBH (21250)	CERTIFIED, REPLACED DRY GAS STANDARD.
28-Jul-11	28-Jul-11	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
02-Feb-11	02-Feb-11	RJP (22428)	CERTIFIED.
18-Aug-10	18-Aug-10	RJP (22428)	CERTIFIED.
02-Mar-10	02-Mar-10	RJP (22428)	REPLACED DRY GAS STANDARD. CERTIFIED
02-Nov-09	02-Nov-09	RJP (22428)	FIRMWARE/SOFTWARE UPGRADE. CERTIFIED
05-Oct-09	05-Oct-09	RJP (22428)	CERTIFIED.
30-Jul-09	30-Jul-09	RJP (22428)	REPLACED TANK TOP LID. CERTIFIED.
22-Oct-08	22-Oct-08	RJP (22428)	CALIBRATED AND CERTIFIED.
06-Oct-08	06-Oct-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTANCE.

DBH
MK

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number **010447** Worksheet Start Date **11/15/2013**

Location **Greene CO SO**

Address **10005 Spotswood Tr Stanardsville VA 22973**

DFS Technician **Donald Hall** License No. **21250**

☐ Laboratory ☒ On-Site

Site Specifications

- | | Yes | No |
|--|-------------------------------------|--------------------------|
| 1 Secured Environment:
Location must not be accessible to the general public. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2 Environment free from contaminants | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3 Dedicated telephone line:
The phone line should be used solely by the instrument. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4 Adequate Ventilation:
Enough space must be provided for the instrument and the printer to allow for adequate ventilation. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 5 Stable temperature controls:
The instrument should not be exposed to direct sources of temperature variation. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 115VAC power source:
Whenever possible instrument power circuit should not be shared with refrigerators, copy machines or other high amperage devices. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7 Room Condition:
The site should be free of excessive moisture, heat and dust. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

	Old serial no.	New serial no.	Supplies
E-Seek			Mouthpieces
Keyboard			Certificates of Analysis
Printer			Operator Worksheet
UPS			Other:

Maintenance (if any)
Firmware/software upgrade.

Comments (if any)

Instrument Serial Number 010447

Certification Date 11/15/2013

Instrument Barometer (mm HG) 749

Reference Barometer (mm HG) 751

Reference Barometer(RB)Serial # 009109

RB Calibration Due 8/1/2014

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.250	0.246	0.238	0.253	Sample 2	0.242
Precision		sample min	sample max	Sample 3	
0.001		0.241	0.242		0.241

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.150	0.148	0.143	0.152	Sample 2	0.145
Precision		sample min	sample max	Sample 3	
0.001		0.145	0.146		0.146

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.080	0.079	0.076	0.082	Sample 2	0.079
Precision		sample min	sample max	Sample 3	
0		0.079	0.079		0.079

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.020	0.020	0.017	0.023	Sample 2	0.019
Precision		sample min	sample max	Sample 3	
0		0.019	0.019		0.019

all measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

☒ Calibrated☒ Certified☒ Replaced dry gas standard (+O-ring)

Dry gas standard Lot No. (with tank no.)

AG230501-31

☒ Measurement Assurance Check☒ Run a Breath Test (Instrument Test)

(successful completion denotes satisfactory condition of the item)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	
0.100	0.098	0.095	0.101	Sample 2	0.098
Precision		sample min	sample max	Sample 3	
0		0.098	0.098		0.098

DFS Technician

Donald B Hall

Date

11/18/13

Issuing Analyst

Melissa Kennedy

Date

11/24/13

Intox EC/IR II QA Worksheet

Issued by Calibration and Training Program Manager

Issue Date: 4-March-2013

DFS Document 250-F113

Revision 6

Page 2 of 2




COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
---	-----------------------------

BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY HALL, DONALD, B		AGENCY DFS Central Lab
DFS LICENSE NUMBER 21250	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 11/15/2013
TEST EQUIPMENT NUMBER 010447		

RESULTS: TIME SAMPLE TAKEN 10:25 EST
SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20_____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____
OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 15 Nov 2013 at 10:57

Sed
DBH
ML

Test Results

Instrument Serial Number 010447

Test # 000404 Subject Test

Test Location 1 Department of
Test Date 15 Nov 2013

Test Location 2 Forensic Science
Test Time 10:19
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name HALL
Agency DFS Central Lab
Card Serial Number 121250
Subject's Last Name INSTRUMENT
Subject's Middle Initial
Driver's License Number
Driver's License State

Operator's First Name DONALD
Operator's Middle Initial B
License Number 21250
Effective Date 10/01/2012
Expiration Date 10/01/2014
Subject's First Name TEST
Subject's Date of Birth 00/00/0000
Subject's Sex Male
Driver's License Expiration 00/00/0000
Court Name DFS

End Date 15 Nov 2013 End Time 10:26

Result Time 10:25

Result Date 15 Nov 2013 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 10:19

Data Type BLK

Sample Value 0.000

Sample Time 10:20

Data Type CHK

Sample Value 0.099

Sample Time 10:21

Data Type BLK

Sample Value 0.000

Sample Time 10:22

Data Type SUBJ

Sample Value 0.000

Sample Time 10:23

Data Type BLK

Sample Value 0.000

Sample Time 10:23

Data Type SUBJ

Sample Value 0.000

Sample Time 10:25

Data Type BLK

Sample Value 0.000

Sample Time 10:26

Standard Type Dry Gas Std

Standard Value 0.099

Standard Lot Number AG219101-03

Standard Expiration Date 07/09/2014

Tank Pressure 164

Barometric Pressure 749 mmHg

Blow Sample Number 1 Blow Duration 3.40 sec

Blow Volume 1869 cc End-of-Blow Time 10:23

Blow Sample Number 2 Blow Duration 3.87 sec

Blow Volume 2024 cc End-of-Blow Time 10:25

Tamper Evident Stamp 60fd9e93

Test Status Code 0

Test Status Success

DBF

ML

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010447 Test Number: 405

Test Date: 11/15/2013 Test Time: 10:27 EST

Dry Gas Target: 0.099

Lot Number: AG219101-03 Exp Date: 07/09/2014

Tank Pressure: 164 psi Barometric Pressure: 749 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	10:28
CHK	0.099	10:29
BLK	0.000	10:30
CHK	0.098	10:31
BLK	0.000	10:32
CHK	0.098	10:33

Test Status: *Success*

Calibration CRC: 609B6E07

DBA

WDL

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010447 Test Number: 406

Test Date: 11/15/2013 Test Time: 10:36 EST

Dry Gas Target: 0.296

Lot Number: AG322702-04 Exp Date: 08/15/2015

Tank Pressure: 66 psi Barometric Pressure: 749 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	10:36
CHK	0.292	10:37
BLK	0.000	10:39
CHK	0.292	10:39
BLK	0.000	10:41
CHK	0.291	10:42

Test Status: Success

Calibration CRC: 609B6E07

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010447 Test Number: 407

Test Date: 11/15/2013 Test Time: 10:45 EST

Technician Initials: DBH

Dry Gas Target: 0.099

Lot Number: AG219101-03 Exp Date: 07/09/2014

Tank Pressure: 154 psi Barometric Pressure: 749 mmHg

Test	g/210L	Time
DIAG	Pass	10:45
BLK	0.000	10:46
CHK	0.097	10:46
BLK	0.000	10:48
CHK	0.097	10:48
BLK	0.000	10:49
CHK	0.097	10:50
BLK	0.000	10:51

Success

Standard Value (at sea level): 0.100 g/210L

Certification Status: Success

PERFORMED ONE-POINT CERTIFICATION IN PREPARATION
FOR FIRMWARE/SOFTWARE UPGRADE DUE TO CERTIFICATION
WARNING ON DISPLAY.

DBH
11/15/13

Intox EC/IR-II: Software Version

Department of Forensic Science

Serial Number: 010447

System Date: 11/15/2013

System Time: 11:18 EST

Software Version: VS00333-K

Software CRC: 56745BCA

Firmware Version: VS00171-CL

Firmware CRC: 7107756B

DB1

NK

Intox EC/IR-II: Calibration

Department of Forensic Science

Serial Number: 010447 Test Number: 408

Test Date: 11/15/2013 Test Time: 11:18 EST

Dry Gas Target: 0.098

Lot Number: 0651210013-05 Exp Date: 04/01/2014

Tank Pressure: 365 psi Barometric Pressure: 748 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	11:19
CAL	0.098	11:20

Test Status: Success

Calibration CRC: 0E50B67E

DB

ASL

DB

MSK

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010447 Test Number: 409

Test Date: 11/15/2013 Test Time: 11:24 EST

Technician Initials: DBH

Dry Gas Target: 0.246

Lot Number: 29612250I2-10 Exp Date: 11/01/2014

Tank Pressure: 125 psi Barometric Pressure: 748 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:24
BLK	0.000	11:25
CHK	0.242	11:26
BLK	0.000	11:28
CHK	0.242	11:28
BLK	0.000	11:30
CHK	0.241	11:31
BLK	0.000	11:32

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

DB

MSK

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010447 Test Number: 410

Test Date: 11/15/2013 Test Time: 11:35 EST

Technician Initials: DBH

Dry Gas Target: 0.148

Lot Number: 2951215012-03 Exp Date: 11/01/2014

Tank Pressure: 615 psi Barometric Pressure: 748 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:36
BLK	0.000	11:36
CHK	0.145	11:37
BLK	0.000	11:38
CHK	0.146	11:39
BLK	0.000	11:41
CHK	0.145	11:41
BLK	0.000	11:43

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

DBH
PWL

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010447 Test Number: 411

Test Date: 11/15/2013 Test Time: 11:46 EST

Technician Initials: DBH

Dry Gas Target: 0.079

Lot Number: 0651208012-03 Exp Date: 04/01/2014

Tank Pressure: 95 psi Barometric Pressure: 748 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:46
BLK	0.000	11:47
CHK	0.079	11:48
BLK	0.000	11:49
CHK	0.079	11:50
BLK	0.000	11:51
CHK	0.079	11:52
BLK	0.000	11:53

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010447 Test Number: 412
Test Date: 11/15/2013 Test Time: 11:56 EST

Technician Initials: DBH

Dry Gas Target: 0.020

Lot Number: 0771302011-02 Exp Date: 05/01/2015

Tank Pressure: 943 psi Barometric Pressure: 748 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:56
BLK	0.000	11:57
CHK	0.019	11:58
BLK	0.000	11:59
CHK	0.019	12:00
BLK	0.000	12:01
CHK	0.019	12:02
BLK	0.000	12:03

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010447 Test Number: 413

Test Date: 11/15/2013 Test Time: 12:07 EST

Dry Gas Target: 0.295

Lot Number: AG322702-04 Exp Date: 08/15/2015

Tank Pressure: 56 psi Barometric Pressure: 747 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	12:08
CHK	0.294	12:08
BLK	0.000	12:10
CHK	0.293	12:11
BLK	0.000	12:13
CHK	0.293	12:14

Test Status: *Success*

Calibration CRC: 0E50B67E

DB

MSK

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010447 Test Number: 414

Test Date: 11/15/2013 Test Time: 12:17 EST

Dry Gas Target: 0.098

Lot Number: AG230501-31 Exp Date: 10/31/2014

Tank Pressure: 325 psi Barometric Pressure: 747 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	12:17
CHK	0.098	12:18
BLK	0.000	12:20
CHK	0.098	12:20
BLK	0.000	12:22
CHK	0.098	12:23

Test Status: *Success*

Calibration CRC: 0E50B67E

De

MSH

DBH

hwl




COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
---	-----------------------------

BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY HALL, DONALD, B		AGENCY DFS Central Lab
DFS LICENSE NUMBER 21250	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 11/15/2013
TEST EQUIPMENT NUMBER 010447		

RESULTS: TIME SAMPLE TAKEN 12:32 EST
SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____ SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____ OPERATOR'S SIGNATURE

FOR COURT



IntoxNet MIS Report

Report Generated 18 Nov 2013 at 12:11

DBA

WJK

Test Results

Instrument Serial Number 010447

Test # 000415 Subject Test

Test Location 1 Department of
Test Date 15 Nov 2013

Test Location 2 Forensic Science
Test Time 12:25
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name HALL
Agency DFS Central Lab
Card Serial Number 121250
Subject's Last Name INSTRUMENT
Subject's Middle Initial
Driver's License Number

Operator's First Name DONALD
Operator's Middle Initial B
License Number 21250

Effective Date 10/01/2012 Expiration Date 10/01/2014

Subject's First Name TEST

Subject's Date of Birth 00/00/0000 Subject's Sex Male

Driver's License Expiration 00/00/0000

Court Name DFS

End Date 15 Nov 2013 End Time 12:33

Result Time 12:32

Result Date 15 Nov 2013 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 12:26

Data Type BLK

Sample Value 0.000

Sample Time 12:27

Data Type CHK

Sample Value 0.098

Sample Time 12:27

Data Type BLK

Sample Value 0.000

Sample Time 12:29

Data Type SUBJ

Sample Value 0.000

Sample Time 12:29

Data Type BLK

Sample Value 0.000

Sample Time 12:30

Data Type SUBJ

Sample Value 0.000

Sample Time 12:32

Data Type BLK

Sample Value 0.000

Sample Time 12:33

Standard Type Dry Gas Std

Standard Value 0.098

Standard Lot Number AG230501-31

Standard Expiration Date 10/31/2014

Tank Pressure 316

Barometric Pressure 747 mmHg

Blow Sample Number 1 Blow Duration 3.01 sec

Blow Volume 1753 cc End-of-Blow Time 12:29

Blow Sample Number 2 Blow Duration 3.41 sec

Blow Volume 1882 cc End-of-Blow Time 12:32

Tamper Evident Stamp b6fc2d37

Test Status Code 0

Test Status Success